

Bridge Inspection										
Bridge File Number	77563 W-2 Bridge					Form Type	PSR			
Year Built/Year Supstr	1975/1975					Lot No.	1			
Bridge or Town Name	LANGDON					Inspector Name	Jason Rusu			
Located Over	CPR					Inspector Class	BR CLS A			
Located On	1:12 L1 2.444					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	03-Mar-2012			
Legal Land Location	SW SEC 13 TWP 24 RGE 27 W4M					Data Entry By	Anne Roberts			
Longitude, Latitude	-113:38:40, 51:02:16					Data Entry Date	28-Mar-2012			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Garry Roberts			
Contract Main. Area	CMA30					Review Date	12-Mar-2012			
Clear Roadway/Skew	12.2 /					Dept. Reviewer Name	Tim Davies			
AADT/Year	14,810 / 2011 (A)					Dept. Review Date	29-Mar-2012			
Road Classification	RAD-412.4-120					Follow-Up By				
Detour Length (km)	1									
Allowable Load (t):	Single	CS1 28			Semi	CS2 49		Train	CS3 62	----> On Critical Spans ---->Critical Member
Design Loading:	HS25									----> Primary Span

Posting Information										
Required Vert. Clearance Posting (m)										
Posted Vertical Clearance (Y/N)					No					
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)		Lane	SB	On Bridge (m)	In Advance (Y/N)
Remarks	Not required RxR is abandoned									
Required Load Posting (t)					Single		Semi		Truck Train	
Posted Loading (t)					Single		Semi		Truck Train	
Posted:	Lane	EB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)			
Posted:	Lane	WB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No		
Remarks	Not required									
Hazard Marker At Bridge (Y/N)					No					
Remarks										
Other Sign Types					BRIDGE ICES					

Utilities (Located at)										
Utility Attachments										
Telephone	NORTH R/W.					Gas				
Power	4 LINE S R/W. 30m FROM C.L.					Municipal				
Others						Problem (Y/N)	No			
Remarks										

Approach Road									
					Last	Now	Explanation of Condition		
Horizontal Alignment					9	9			
Vertical Alignment					7	7			
Roadway Width (m)					12.200				
Approach Bump					6	6			
Guardrail (Y/N)					Yes		NW bridgerail to guardrail bolt missing		
Guardrail					4	4	Not thriebeam Minor accident damage at NW, SE approx. 50 m West of bridge		
Length (m)					91.000				
Current Standard (Y/N)					No				
Termination Type					TURNED DOWN ENDS				
Drainage					3	5	Erosion repaired.		
Approach Road General Rating					7	7			

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : RD, 3 Spans, Lengths(m): 10.7-12.2-10.7, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	
Now	0.0	0.0	0.0	0.0	
Wearing Surface			6	4	CHIP COAT on ACP-total 65mm CRACKED OVER PIER Small pothole at center over A2 100 mm diameter x 25 mm deep. Staining between girders.
(Material Type : ACP - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	Yes				
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			7	7	Tar filled open joint Cracked @ piers and abuts
Temperature (deg. C)					
(Expansion Type :)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
Deck Drainage			4	4	Leakage @ piers, abuts and between girders
Drains Clogged (Y/N)		No			
Curbs/Median			3	5	Curbs repaired
(Curb Type : Standard)					
Scaling (Percent Area)		5			
Bridge Rail			7	7	Minor corrosion and some grout spalls @ base plates 4 A/B nuts with less than full thread
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			4	4	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			5	5	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	5	
Now	0	0	0	9	
Girders			3	3	girders have longitudinal narrow cracks. Cracking at 300-400mm from girder edge Cracking is more evident at end spans.
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : 33)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : RD, 3 Spans, Lengths(m): 10.7-12.2-10.7, A-Ident Number:)				
Diaphragms/Cross Frame		X	X	
Bearings		7	7	@ abuts @ piers
Temperature (deg. C)	5			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	
Stains (Percent Area)	2			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		3	3	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	Buried
Paint/Coating		5	5	
Abutment Stability		8	8	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-COLUMN)				Delam. crack at South end of P2 Shallow spalls at South end of P1
Bearing Seats/Caps		5	5	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 7:7)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		5	5	
(Colour Description : YELLOW)				
(Colour Code : 13538)				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		5	5	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		X	X	Railway is abandoned
Traffic Safety Features		X	X	
Type				
Slope Protection		4	4	Gap @ SW concrete slope protection to Abut cap. Slope protection heaved 80 mm @ SW. Est. 1 m deep x 2 m wide x 4 m long void under SW slope protection.
(Type : CONCRETE; CONCRETE)				
Bank Stability		5	5	
Drainage		5	5	
Grade Separation General Rating		5	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Install 20mm bolt @NW bdgrail to flexbeam					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2012	Fill gap @ W slope protection - 1. m3 Tar and Slope protection void - 10 m3 flowable grout					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	49.9/48.3	Est. Repl. Yr	2021	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	03-Dec-2013		Previous Inspection Date	17-Jul-2010			
Inspection Cycle (Default) (months)	21						
Comment							